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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	AMED INVENTOR ATTORNEY DOCKET NO. CONFIR		
09/713,775	11/15/2000		Jae-Young Jung	12568-002001 / OPP 000771	3088	'
26161	7590	03/07/2003				
FISH & RIC		ON PC	EXAM	EXAMINER		
225 FRANKL BOSTON, MA)		YEE, DE	BORAH	•
				ART UNIT	PAPER NUMBER	110
				1742		, ,
			DATE MAILED: 03/07/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		· ·	Δ	Application No.		Applicant(s)			
	0.55	A . 4 Q	(09/713,775		JUNG, JAE-YOUN	IG		
	Οπις	Action Summary	E	xaminer		Art Unit			
				eborah Yee		1742			
۔۔ Period foi		ING DATE of this commu	nication appea	rs on the cover	sheet with the co	orrespondence ad	dress		
THE M - Extens after S - If the p - If NO p - Failure - Any re	MAILING E sions of time r SIX (6) MONTI period for reply period for repl e to reply withi ply received b	STATUTORY PERIOD IN COMMUNITY OF THIS COMUNITY OF THIS COMMUNITY OF THIS COMMUNITY OF THIS COMMUNITY OF THIS COMMUNITY O	IICATION. s of 37 CFR 1.136(a munication. 30) days, a reply wit tatutory period will a y will, by statute, car	a). In no event, howe thin the statutory mini apply and will expire S use the application to	ver, may a reply be tim mum of thirty (30) days SIX (6) MONTHS from t become ABANDONED	ely filed will be considered timely he mailing date of this co 0 (35 U.S.C. § 133).	<i>y.</i> ommunication.		
1)🛛	Respons	ive to communication(s) f	iled on <u>24 Dec</u>	<u>cember 2002</u> .					
2a)⊠	This action	on is FINAL .	2b) This	action is non-fi	nal.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)🛛 (Claim(s)	<u>1-8</u> is/are pending in the a	application.						
4	la) Of the	above claim(s) is/s	are withdrawn	from considera	ation.				
5) 🗌 (Claim(s) _	is/are allowed.							
6)⊠ (Claim(s) <u>1</u>	<u>/-8</u> is/are rejected.							
7) 🗌 (Claim(s) _	is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.									
Application	on Papers	3							
9)□ T	he specifi	cation is objected to by the	ne Examiner.						
10)[T	he drawin	g(s) filed on is/are	: a) accepted	d or b) objecte	ed to by the Exar	niner.			
		may not request that any of							
11)∐ T		sed drawing correction file				ved by the Examin	er.		
	• •	ed, corrected drawings are re			ion.				
12)∐ T	he oath o	r declaration is objected t	o by the Exam	niner.					
Priority u	nder 35 U	l.S.C. §§ 119 and 120							
13) 🗌 🛚	Acknowle	dgment is made of a clair	n for foreign p	riority under 35	U.S.C. § 119(a))-(d) or (f).			
a)[All b)] Some * c) ☐ None of:							
•	1.☐ Cer	tified copies of the priority	documents h	iave been rece	ived.				
:	2. Cer	tified copies of the priority	documents h	ave been rece	ived in Application	on No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received.									
	_	gment is made of a claim		• •					
Attachment(•								
2) Notice	of Draftspe	es Cited (PTO-892) rson's Patent Drawing Review (sure Statement(s) (PTO-1449)	•	5) 🔲	•	(PTO-413) Paper No Patent Application (PT			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,3,5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scarlin et al (US Patent No.5,415,706).

Claims 2,4,6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scarlin et al(US Patent 5,415,706) as applied to claims 1,3,5 and 7 above, and further in view of English abstract of Japanese patent 402217444A.

Response to Arguments

Applicant's arguments filed December 24,2002 are not deemed persuasive. Scarlin discloses a composition containing 8-13%Cr and 0.05-2.0%Ni, which respectively overlap 10-19 or 12-16%Cr and 1-6%Ni recited in the rejected claims. It was argued that Scarlin teaches away from a Cr content exceeding 13% and prefers a Cr range is 8.5 –11%. Similarly, Scarlin teaches away from a Ni content over 2% and prefers a Ni range of 0.3-1%. It is the examiner's position that applicant still claims a broad Cr and Ni range which would include alloys containing less than 13%Cr and less than 2% Ni within the amounts taught by Scarlin. To distinguish claims over prior art, it is recommended to amend claims to recite a Cr lower limit of 13% and a Ni lower limit of 2%.

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In regard to the method claims, Scarlin discloses a tempering temperature of 780C which is higher than the recited tempering temperature of 350-575C. Applicant submitted a diagram to demonstrate that a steel containing 0.06%C and 12%Cr tempered at 780C vs. below 575C would have different Cr carbides. It is the examiner's position that one skilled in the art would expect a larger number of carbides to precipitate at a higher temperatures, and steel would have less ductility. To select the tempering temperature, would be a matter of routine optimization depending on desired strength, toughness and ductility desired, which is well within the skill of the artisan and productive of no new and unexpected results.

Furthermore, Examiner maintain her position that it would be obvious to incorporate Ti and/or Ta in to the Scarlin alloy in view of JP'444A because Ti and Ta are chemically equivalent to V and Nb which are already taught by the prior art, and therefore could be used interchangeably.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 703-308-1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-873-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

dy March 3, 2003

> DEBORAH VER RIMARY EXAMMER